

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	790	(546/114).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/14 14:25
L2	14	comphorsulfonic	US-PGPUB; USPAT	OR	ON	2006/10/14 14:25
L3	2547535	s l1 and l2	US-PGPUB; USPAT	OR	ON	2006/10/14 14:25
L4	0	l1 and l2	US-PGPUB; USPAT	OR	ON	2006/10/14 14:25
L5	8182	camphorsulfonic	US-PGPUB; USPAT	OR	ON	2006/10/14 14:25
L6	72	l1 and l5	US-PGPUB; USPAT	OR	ON	2006/10/14 14:26
L7	1666	clopidogrel	US-PGPUB; USPAT	OR	ON	2006/10/14 14:26
L8	18	l6 and l7	US-PGPUB; USPAT	OR	ON	2006/10/14 14:27
L9	50	keshava and murthy	US-PGPUB; USPAT	OR	ON	2006/10/14 14:27
L10	3	elena and bejan	US-PGPUB; USPAT	OR	ON	2006/10/14 14:27
L11	19	gamini and weeratunga	US-PGPUB; USPAT	OR	ON	2006/10/14 14:28
L12	4	l7 and (l9 or l10 or l11)	US-PGPUB; USPAT	OR	ON	2006/10/14 14:29
L13	2	l12 and l5	US-PGPUB; USPAT	OR	ON	2006/10/14 14:29

L46 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:735379 CAPLUS

DOCUMENT NUMBER: 143:211890

TITLE: Resolution of methyl 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-chlorophenyl)acetate by diastereomeric crystallization using single optically active resolving agent

INVENTOR(S): Murthy, K. S. Keshava; Bejan, Elena; Weeratunga, Gamini

PATENT ASSIGNEE(S): Brantford Chemicals Inc., Can.

SOURCE: U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005176960	A1	20050811	US 2004-779724	20040218 <--
CA 2457459	AA	20050811	CA 2004-2457459	20040211
AU 2005212390	A1	20050825	AU 2005-212390	20050210
WO 2005077958	A1	20050825	WO 2005-CA168	20050210
WO 2005077958	C1	20060112		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: CA 2004-2457459 A 20040211  
WO 2005-CA168 W 20050210

IT 120202-70-2P, Methyl (R)-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)(2-chlorophenyl)ethanoate (S)-10-camphorsulfonate

RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(racemization for preparation of desired diastereomer; resolution of Me 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-chlorophenyl)acetate by diastereomeric crystallization using single

optically

active resolving agent)

RN 120202-70-2 CAPLUS

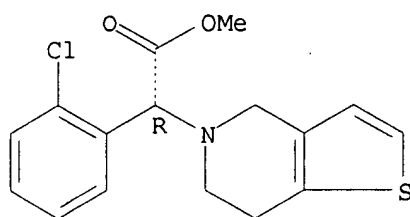
CN Thieno[3,2-c]pyridine-5(4H)-acetic acid,  $\alpha$ -(2-chlorophenyl)-6,7-dihydro-, methyl ester, ( $\alpha$ R)-, (1S)-7,7-dimethyl-2-oxobicyclo[2.2.1]heptane-1-methanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 120202-69-9

CMF C16 H16 Cl N O2 S

Absolute stereochemistry. Rotation (-).

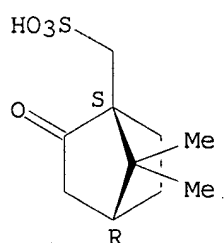


CM 2

CRN 3144-16-9

CMF C10 H16 O4 S

Absolute stereochemistry. Rotation (+).



IT 862163-72-2P, Methyl (S)-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)(2-chlorophenyl)ethanoate (S)-10-camphorsulfonate  
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (resolution of Me 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-chlorophenyl)acetate by diastereomeric crystallization using single optically

active resolving agent)

RN 862163-72-2 CAPLUS

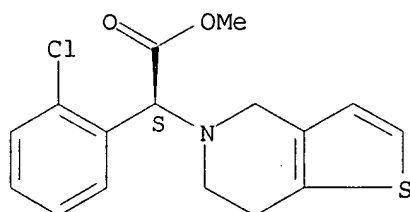
CN Thieno[3,2-c]pyridine-5(4H)-acetic acid,  $\alpha$ -(2-chlorophenyl)-6,7-dihydro-, methyl ester, ( $\alpha$ S)-, (1S,4R)-7,7-dimethyl-2-oxobicyclo[2.2.1]heptane-1-methanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 113665-84-2

CMF C16 H16 Cl N O2 S

Absolute stereochemistry. Rotation (+).

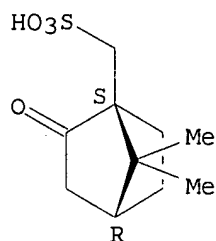


CM 2

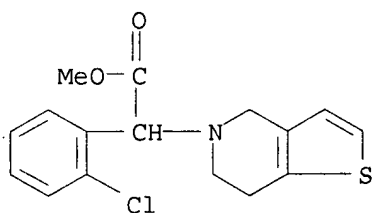
CRN 3144-16-9

CMF C10 H16 O4 S

Absolute stereochemistry. Rotation (+).



IT 90055-48-4, Methyl 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-  
2-(2-chlorophenyl)acetate  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(resolution of Me 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-  
chlorophenyl)acetate by diastereomeric crystallization using single  
optically active resolving agent)  
RN 90055-48-4 CAPLUS  
CN Thieno[3,2-c]pyridine-5(4H)-acetic acid,  $\alpha$ -(2-chlorophenyl)-6,7-  
dihydro-, methyl ester (9CI) (CA INDEX NAME)



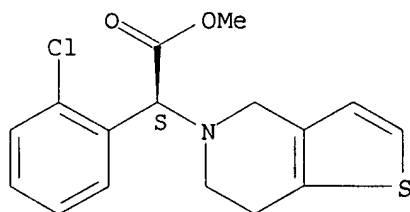
IT 120202-66-6P, Methyl (S)-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-  
yl)(2-chlorophenyl)ethanoate hydrogen sulfate  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(resolution of Me 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-  
chlorophenyl)acetate by diastereomeric crystallization using single  
optically active resolving agent)  
RN 120202-66-6 CAPLUS  
CN Thieno[3,2-c]pyridine-5(4H)-acetic acid,  $\alpha$ -(2-chlorophenyl)-6,7-  
dihydro-, methyl ester, ( $\alpha$ S)-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 113665-84-2

CMF C16 H16 Cl N O2 S

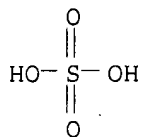
Absolute stereochemistry. Rotation (+).



CM 2

CRN 7664-93-9

CMF H2 O4 S

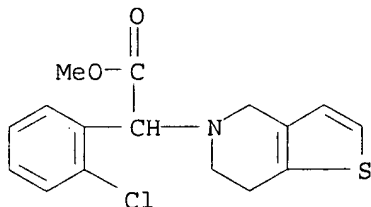


IT 140623-72-9P, Methyl 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-chlorophenyl)acetate (S)-10-camphorsulfonate  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process) (resolution; resolution of Me  
2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-  
2-(2-chlorophenyl)acetate by diastereomeric crystallization using single optically active resolving agent)  
RN 140623-72-9 CAPLUS  
CN Thieno[3,2-c]pyridine-5(4H)-acetic acid,  $\alpha$ -(2-chlorophenyl)-6,7-dihydro-, methyl ester, (1S,4R)-7,7-dimethyl-2-oxobicyclo[2.2.1]heptane-1-methanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 90055-48-4

CMF C16 H16 Cl N O2 S

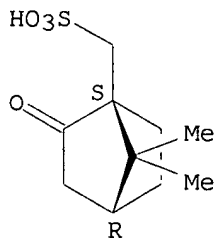


CM 2

CRN 3144-16-9

CMF C10 H16 O4 S

Absolute stereochemistry. Rotation (+).



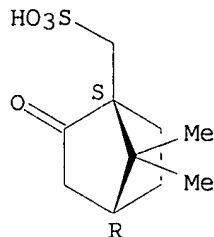
IT 3144-16-9, (S)-10-Camphorsulfonic acid  
RL: NUU (Other use, unclassified); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
(resolving agent; resolution of Me 2-(4,5,6,7-tetrahydrothieno[3,2-

c]pyridin-5-yl)-2-(2-chlorophenyl)acetate by diastereomeric crystallization using single optically active resolving agent)

RN 3144-16-9 CAPLUS

CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-, (1S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



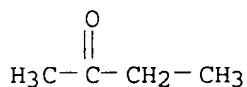
IT 78-93-3, Methyl ethyl ketone, uses 108-10-1, Methyl isobutyl ketone 108-88-3, Toluene, uses

RL: NUU (Other use, unclassified); USES (Uses)

(solvent; resolution of Me 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-chlorophenyl)acetate by diastereomeric crystallization using single optically active resolving agent)

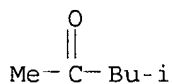
RN 78-93-3 CAPLUS

CN 2-Butanone (8CI, 9CI) (CA INDEX NAME)



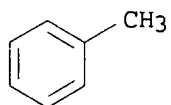
RN 108-10-1 CAPLUS

CN 2-Pentanone, 4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 108-88-3 CAPLUS

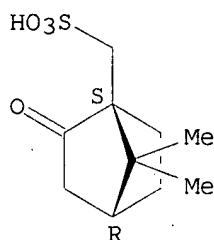
CN Benzene, methyl- (9CI) (CA INDEX NAME)



L52 ANSWER 1 OF 9 CA COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 145:83300 CA  
 TITLE: Process for preparation of clopidogrel and its salt  
 INVENTOR(S): Mao, Haifang; Pan, Xianhua; Lu, Jiaqing  
 PATENT ASSIGNEE(S): Shanghai Institute of Technology, Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1775782	A	20060524	CN 2005-10111562	20051215
PRIORITY APPLN. INFO.:			CN 2005-10111562	20051215
IT 3144-16-9, Camphorsulfonic acid				
RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of clopidogrel and its salt)				
RN 3144-16-9 CA				
CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-, (1S,4R)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (+).



L52 ANSWER 2 OF 9 CA COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 143:211890 CA  
 TITLE: Resolution of methyl 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-chlorophenyl)acetate by diastereomeric crystallization using single optically active resolving agent  
 INVENTOR(S): Murthy, K. S. Keshava; Bejan, Elena; Weeratunga, Gamini  
 PATENT ASSIGNEE(S): Brantford Chemicals Inc., Can.  
 SOURCE: U.S. Pat. Appl. Publ., 8 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005176960	A1	20050811	US 2004-779724	20040218
CA 2457459	AA	20050811	CA 2004-2457459	20040211
AU 2005212390	A1	20050825	AU 2005-212390	20050210
WO 2005077958	A1	20050825	WO 2005-CA168	20050210
WO 2005077958	C1	20060112		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

CA 2004-2457459

A 20040211

WO 2005-CA168

W 20050210

IT 3144-16-9, (S)-10-Camphorsulfonic acid

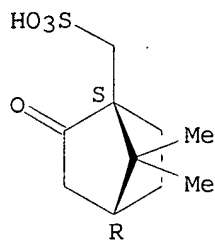
RL: NUU (Other use, unclassified); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(resolving agent; resolution of Me 2-(4,5,6,7-tetrahydrothieno[3,2-clpyridin-5-yl)-2-(2-chlorophenyl)acetate by diastereomeric crystallization using single optically active resolving agent)

RN 3144-16-9 CA

CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-, (1S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L52 ANSWER 3 OF 9 CA COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

142:316818 CA

TITLE:

Process for the recovery of (S)-(+)-methyl (2-chlorophenyl)- (6,7-dihydro-4H-thieno[3,2-clpyridin-5-yl)acetate hydrogen sulfate (clopidogrel bisulfate) from its (R) and mixture of (R) and (S)-isomers

INVENTOR(S):

Reddy, Manne Satyanarayana; Eswaraiah, Sajja; Reddy, Anumula Raghupathi; Sampath, Alla

PATENT ASSIGNEE(S):

Reddy's Laboratories Limited, India; Reddy's Laboratories, Inc.

SOURCE:

U.S. Pat. Appl. Publ., 7 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005059696	A1	20050317	US 2004-842702	20040510
PRIORITY APPLN. INFO.:			IN 2003-MA389	A 20030508
OTHER SOURCE(S):			CASREACT 142:316818; MARPAT 142:316818	

IT 3144-16-9, (+)-Camphorsulfonic acid

RL: RCT (Reactant); RACT (Reactant or reagent)

(process for recovery of clopidogrel bisulfate from its (R) and mixture of (R) and (S)-isomers by racemization and optical resolution)

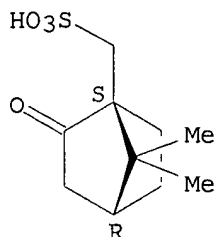
RN 3144-16-9 CA

CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-,



(1S,4R) - (9CI) (CA INDEX NAME)

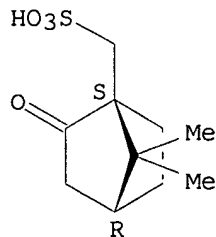
Absolute stereochemistry. Rotation (+).



L52 ANSWER 4 OF 9 CA COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 141:59670 CA  
TITLE: A novel polymorph of clopidogrel hydrogen sulfate and pharmaceutical composition containing it  
INVENTOR(S): Narasa, Reddy Attunuri; Nagi, Reddy Bheemavarapu; Ratnakar, Kura Reddy; Raji, Reddy Rapolu  
PATENT ASSIGNEE(S): Hetero Drugs Limited, India  
SOURCE: PCT Int. Appl., 18 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052966	A1	20040624	WO 2002-IN231	20021209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002356430	A1	20040630	AU 2002-356430	20021209
PRIORITY APPLN. INFO.:			WO 2002-IN231	A 20021209
IT 3144-16-9, Camphorsulfonic acid				
RL: REM (Removal or disposal); PROC (Process)				
(novel polymorph of clopidogrel hydrogen sulfate and pharmaceutical composition containing it)				
RN 3144-16-9 CA				
CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-, (1S,4R) - (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (+).



L52 ANSWER 5 OF 9 CA COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 137:140508 CA

TITLE: Process for preparing clopidogrel and  
analogues via synthesis and/or resolution of  
corresponding acetamide and acetonitrile derivatives  
INVENTOR(S): Pandey, Bipin; Lohray, Vidya Bhushan; Lohray, Braj  
Bhushan

PATENT ASSIGNEE(S): Cadila Healthcare Limited, India

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059128	A2	20020801	WO 2002-IN12	20020121
WO 2002059128	A3	20021219		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
IN 191030	A	20030913	IN 2001-MU84	20010124
US 2002177712	A1	20021128	US 2001-54101	20011022
US 6635763	B2	20031021		
CA 2436323	AA	20020801	CA 2002-2436323	20020121
EP 1353928	A2	20031022	EP 2002-710298	20020121
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2002007064	A	20040330	BR 2002-7064	20020121
JP 2004522744	T2	20040729	JP 2002-559430	20020121
IN 194223	A	20041002	IN 2003-MN23	20030108
IN 194222	A	20041002	IN 2003-MN24	20030108
IN 194224	A	20041002	IN 2003-MN26	20030108
IN 194221	A	20041002	IN 2003-MN27	20030108
IN 194507	A	20041113	IN 2003-MU25	20030108
NO 2003002898	A	20030903	NO 2003-2898	20030624
ZA 2003004895	A	20040512	ZA 2003-4895	20030624
PRIORITY APPLN. INFO.:			IN 2001-MU84	A 20010124
			US 2001-54101	A 20011022
			US 2001-54120	A 20011022
			WO 2002-IN12	W 20020121

OTHER SOURCE(S): CASREACT 137:140508; MARPAT 137:140508

IT 3144-16-9, (1S)-(+)-Camphor-10-sulfonic acid

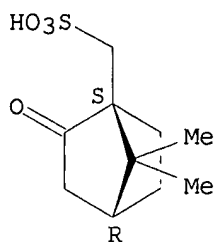
RL: RCT (Reactant); RACT (Reactant or reagent)

(resolving agent; improved process for preparation of clopidogrel  
and analogues via synthesis and/or resolution of corresponding acetamide and  
acetonitrile derivs.)

RN 3144-16-9 CA

CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-,  
(1S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L52 ANSWER 6 OF 9 CA COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 130:25057 CA

TITLE: New process for preparation of methyl  
(2-halophenyl) (6,7-dihydro-4H-thieno[3,2-c]pyridin-5-yl)acetates with antithrombotic activity

INVENTOR(S): Bakonyi, Maria; Csatari Nagy, Marianna; Molnar, Levente, Mrs.; Gajary, Antal; Alattyani, Edit

PATENT ASSIGNEE(S): Sanofi, Fr.

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

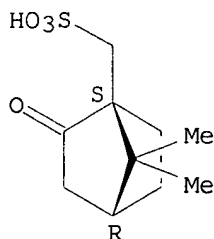
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9851689	A1	19981119	WO 1998-HU48	19980511
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
HR 980240	B1	20030228	HR 1998-980240	19980506
ZA 9803921	A	19981109	ZA 1998-3921	19980508
IN 193570	A	20040724	IN 1998-DE1229	19980508
CA 2289623	AA	19981119	CA 1998-2289623	19980511
AU 9874448	A1	19981208	AU 1998-74448	19980511
AU 735702	B2	20010712		
EP 981529	A1	20000301	EP 1998-921670	19980511
EP 981529	B1	20020116		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
TR 9902783	T2	20000421	TR 1999-2783	19980511
EE 9900488	A	20000615	EE 1999-488	19980511
EE 3925	B1	20021216		
BR 9809112	A	20000801	BR 1998-9112	19980511
RU 2172315	C1	20010820	RU 1999-126506	19980511
NZ 501577	A	20011026	NZ 1998-501577	19980511
JP 2001525819	T2	20011211	JP 1998-548956	19980511
AT 212025	E	20020215	AT 1998-921670	19980511
PT 981529	T	20020628	PT 1998-921670	19980511
ES 2172141	T3	20020916	ES 1998-921670	19980511
CN 1109036	B	20030521	CN 1998-805036	19980511
SK 283700	B6	20031202	SK 1999-1516	19980511
CZ 292820	B6	20031217	CZ 1999-3939	19980511
EG 21973	A	20020531	EG 1998-520	19980512
TW 552263	B	20030911	TW 1998-87109424	19980612
NO 9905533	A	19991213	NO 1999-5533	19991112

MX 9910434	A	20000831	MX 1999-10434	19991112
US 6180793	B1	20010130	US 1999-423549	19991112
HK 1027350	A1	20031017	HK 2000-106408	20001010
PRIORITY APPLN. INFO.:			HU 1997-885	A 19970513
			WO 1998-HU48	W 19980511

OTHER SOURCE(S): MARPAT 130:25057  
 IT 3144-16-9, (1S)-(+)-Camphor-10-sulfonic acid  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (resolving agent; improved preparation of clopidogrel and analogs  
 via (thienylethylamino)(halophenyl)acetamides and -acetates)  
 RN 3144-16-9 CA  
 CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-,  
 (1S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 7 OF 9 CA COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 130:24964 CA  
 TITLE: New 2-[(2-thienyl)ethylamino](2-halophenyl)acetonitrile intermediates for clopidogrel and analogs, and process for their preparation  
 INVENTOR(S): Heymes, Alain; Castro, Bertrand; Bakonyi, Maria; Csatari Nagy, Marianna; Molnar, Levente, Mrs.  
 PATENT ASSIGNEE(S): Sanofi, Fr.  
 SOURCE: PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9851682	A1	19981119	WO 1998-HU46	19980511
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2288637	AA	19981119	CA 1998-2288637	19980511
CA 2288637	C	20051115		
AU 9874446	A1	19981208	AU 1998-74446	19980511
EP 981525	A1	20000301	EP 1998-921668	19980511
EP 981525	B1	20040128		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

BR 9809113	A	20000801	BR 1998-9113	19980511
JP 2001525817	T2	20011211	JP 1998-548954	19980511
AT 258551	E	20040215	AT 1998-921668	19980511
PT 981525	T	20040531	PT 1998-921668	19980511
ES 2213900	T3	20040901	ES 1998-921668	19980511
NO 9905531	A	19991213	NO 1999-5531	19991112
MX 9910431	A	20000831	MX 1999-10431	19991112
US 6215005	B1	20010410	US 2000-423548	20000503

PRIORITY APPLN. INFO.:

HU 1997-886	A	19970513
WO 1998-HU46	W	19980511

OTHER SOURCE(S): MARPAT 130:24964

IT 3144-16-9, (1S)-(+)-Camphor-10-sulfonic acid

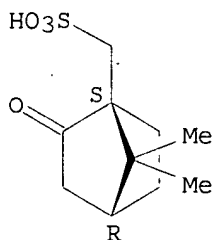
RL: RCT (Reactant); RACT (Reactant or reagent)

(resolving agent; preparation of (thienylethylamino) (halophenyl)acetonitrile  
s as new intermediates for clopidogrel and analogs)

RN 3144-16-9 CA

CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-,  
(1S,4R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 8 OF 9 CA COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 130:24963 CA

TITLE: New 2-[(2-thienyl)ethylamino] (2-halophenyl)acetamide  
intermediates for clopidogrel and analogs,  
and process for their preparation

INVENTOR(S): Bakonyi, Maria; Csatari Nagy, Marianna; Molnar,  
Levente, Mrs.; Makovi, Zoltan; Jobb, Piroska; Bai,  
Tibor, Mrs.

PATENT ASSIGNEE(S): Sanofi, Fr.

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9851681	A1	19981119	WO 1998-HU47	19980511
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2289545	AA	19981119	CA 1998-2289545	19980511
AU 9874447	A1	19981208	AU 1998-74447	19980511

EP 981524	A1	20000301	EP 1998-921669	19980511
EP 981524	B1	20030423		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9809111	A	20000801	BR 1998-9111	19980511
JP 2001525818	T2	20011211	JP 1998-548955	19980511
AT 238294	E	20030515	AT 1998-921669	19980511
PT 981524	T	20030829	PT 1998-921669	19980511
ES 2195335	T3	20031201	ES 1998-921669	19980511
NO 9905532	A	19991213	NO 1999-5532	19991112
MX 9910433	A	20000630	MX 1999-10433	19991112
US 6258961	B1	20010710	US 1999-423801	19991112
PRIORITY APPLN. INFO.:			HU 1997-884	A 19970513
			WO 1998-HU47	W 19980511

OTHER SOURCE(S): CASREACT 130:24963; MARPAT 130:24963

IT 3144-16-9, (1S)-(+)-Camphor-10-sulfonic acid

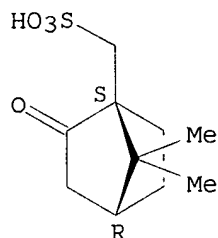
RL: RCT (Reactant); RACT (Reactant or reagent)

(resolving agent; preparation of (thienylethylamino)(halophenyl)acetamides as new intermediates for clopidogrel and analogs)

RN 3144-16-9 CA

CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-, (1S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 9 OF 9 CA COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 116:194139 CA

TITLE: Isopropyl 2-thienylglycidate, process for its preparation, and its use as synthetic intermediate for ticlopidine and clopidogrel

INVENTOR(S): Bousquet, Andre; Calet, Serge; Heymes, Alain

PATENT ASSIGNEE(S): Sanofi SA, Fr.

SOURCE: Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 465358	A1	19920108	EP 1991-401833	19910703
EP 465358	B1	19960207		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FR 2664276	A1	19920110	FR 1990-8482	19900704
FR 2664276	B1	19921023		
US 5132435	A	19920721	US 1991-724988	19910702
CA 2046126	AA	19920105	CA 1991-2046126	19910703
CA 2046126	C	20011120		
JP 04261174	A2	19920917	JP 1991-162859	19910703

JP 3055819	B2	20000626		
HU 61754	A2	19930301	HU 1991-2250	19910703
HU 213397	B	19970630		
AT 133950	E	19960215	AT 1991-401833	19910703
ES 2083542	T3	19960416	ES 1991-401833	19910703
PRIORITY APPLN. INFO.:			FR 1990-8482	A 19900704
OTHER SOURCE(S):	MARPAT 116:194139			
IT 3144-16-9				

RL: RCT (Reactant); RACT (Reactant or reagent)

(resolution by, of thienopyridyl(chlorophenyl)acetate derivative, in preparation of  
clopidogrel)

RN 3144-16-9 CA

CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-,  
(1S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

